



## Lightwave 3 & Lightwave 3+

### WPA Spectrophotometers

The Lightwave 3 and 3+ diode array spectrophotometers offer all the benefits associated with the established WPA Lightwave range. Predefined methods for rapid scanning, kinetics and concentration capabilities, a variable pathlength cell holder up to 40 mm and their compatibility with disposable low volume UV cuvettes have made them a common sight among educational and industrial laboratories alike.

#### Features & Benefits

- UV/Visible spectrophotometer covering 190 to 1100 nm allows you to see more of your sample
- Save data to a USB flash drive so results can be analysed later
- Builds on the success of the WPA Lightwave range
- PVC (Print Via Computer) software is included and allows you to transfer data directly from the instrument to your PC
- Optional integrated printer and wireless Bluetooth® accessories

## Technical Specifications

Technical	
<b>Wavelength Range</b>	190 to 1100 nm
<b>Monochromator</b>	Flat grating
<b>Wavelength Calibration</b>	Automatic upon switch on
<b>Beam Height</b>	15 mm
<b>Spectral Bandwidth</b>	5 nm or 3 nm for '+' models
<b>Wavelength Accuracy</b>	±2 nm
<b>Wavelength Reproducibility</b>	±1 nm
<b>Light Sources</b>	Xenon flash lamp
<b>Detector</b>	Twin CMOS array
<b>Photometric Range</b>	-0.300 to 2.500 A, 0.3 to 199 %T
<b>Photometric Linearity</b>	±1.3 % or ±0.008 A whichever is greater at 546 nm
<b>Photometric Reproducibility</b>	±0.002 A to 0.5 A at 546 nm
<b>Stray Light</b>	<0.5 %T 340 nm
<b>Stability</b>	±0.01 A/h at 340 nm
<b>Noise</b>	±0.005 peak to peak ±0.002 RMS

## Technical Specifications

Software	
<b>Applications</b>	Single wavelength Multi wavelength Concentration Standard curve Wavelength scanning Kinetics Absorbance ratio
<b>Digital Output</b>	USB flash drive, PC via PVC software, Optional Bluetooth
<b>Data Export</b>	USB flash drive: .tsv, native PVC format PC via PVC: .csv, .emf, .xlsx, .xls, .rtf, .tsv, native PVC format
<b>Method Storage</b>	90 with PIN number protection
<b>Graphical Display</b>	Yes, zoom and track function
<b>Sample ID</b>	Yes
<b>Languages</b>	English, German, French, Spanish, Italian, Japanese, Chinese
<b>Dimensions</b>	260 × 390 × 100 mm
<b>Weight</b>	3.00 kg

## Ordering Information

Order #	Product
80-3007-42	WPA Lightwave 3
80-3007-43	WPA Lightwave 3 with Printer
80-3007-44	WPA Lightwave 3 with Bluetooth
80-3007-45	WPA Lightwave 3 with Printer and Bluetooth
80-3007-47	WPA Lightwave 3+
80-3007-48	WPA Lightwave 3+ with Printer
80-3007-49	WPA Lightwave 3+ with Bluetooth
80-3007-50	WPA Lightwave 3+ with Printer and Bluetooth

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